

REDUCING STEAM CONSUMPTION IN STADE

This sustainability story is one of many that shows how Olin products, technologies, ideas, and people are having a positive impact on our world.

SUSTAINABILITY CHALLENGE

- Olin is committed to finding ways to improve energy efficiency, making its contribution to save resources and minimize our carbon footprint.
- At Olin's facility in Stade, Germany, steam generated from a gas power plant is one of the primary energy sources used in most of the site's manufacturing processes.
- Gas-powered energy sources contribute to a larger carbon footprint.

OLIN'S SOLUTION

- A project team assessed steam-saving opportunities within the manufacturing process for certain Chlorinated Organics products.
- The team identified several opportunities to optimize the manufacturing process in order to use less steam.
- One optimization included controlling the amount of liquid in the reactors through more precise temperature and pressure data.
- Another optimization improved the temperature profile by using alternative catalyst mixtures which reduced the amount of steam needed.

POSITIVE IMPACT

- The steam efficiency projects enable the Stade site to save about 3,000 MT of steam power each year.
- The CO₂ emissions from the production of steam at the Stade gas power plant is reduced by 230 MT of CO₂ per year – the equivalent of the annual CO₂ binding of more than 30,000 beech trees.



DID YOU KNOW?

Products from our Chlorinated Organics plant in **Stade** are used in pharmaceutical manufacturing and environmentally friendly refrigerants – protecting people *and* planet.